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Title : SURFACE PRESSURE MEASUREMENTS IN THE STRAP-ON BOOSTERS INTERFERENCE REGION OF 1/100 SCALE PSLV CONFIGURATION AT SUPERSONIC SPEEDS		Document No. PD AE 8712 Date of issue: April 1987
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Abstract :

Pressure measurements were made on the core vehicle in the strap-on interference region of a 1/100 scale PSLV configuration at supersonic Mach numbers of 2.1, 2.5 and 3.0 and incidences of 0 and ± 5 degree. The test Reynolds number varied from 33.8 to 46.9 millions per meter. Pressure coefficients are compared with those obtained in 1.2M tunnel on a 1/40 scale PSLV configuration at a free stream Mach number of 2.5. The pressure variations are in agreement except in a short region where the pressure coeffcients obtained in 0.3M tunnel are lower compared to those of 1.2M tunnel. This discrepancy could be due to the presence of link in the strap-on region and also due to viscous effects arising out of difference in Reynolds number.